

Listing of Claim Amendments

1-6. (Cancelled)

7. (Currently amended) A method for treating bone defects comprising the steps of mixing a powder comprising between about 99.8 to 100 percent by weight calcium sulfate hemihydrate with a diluent to produce an injectable resorbable bone graft material in the form of a paste, the calcium sulfate hemihydrate ~~being formed~~ consisting of thick, stubby rod-like crystals having a low water carrying capacity; and injecting the injectable resorbable bone graft material in the bone defect.

8. (Cancelled)

9. (Currently amended) A method for treating bone defects comprising the steps of mixing a powder comprising between about 99.8 to 100 percent by weight calcium sulfate hemihydrate, the calcium sulfate hemihydrate consisting of thick, stubby, rod-like crystals having a low water carrying capacity, with a diluent to produce an injectable resorbable bone graft material in the form of a paste; and injecting the injectable resorbable bone graft material in the bone defect, the injectable resorbable bone graft material having a compressive strength in excess of 15 MPa within one hour after said injecting step.

10. (Original) The method of claim 9, wherein said bone graft material has a compressive strength of approximately 45-49 MPa within one hour after said injecting step.

11. (Currently amended) The method of ~~claim 10~~ claim 9, wherein said bone graft material has a compressive strength exceeding approximately 50 MPa within one hour after said injecting step.

12. (Currently amended) A method for treating bone defects comprising the steps of mixing a powder comprising between about 99.8 to 100 percent by weight calcium sulfate

hemihydrate, the calcium sulfate hemihydrate consisting of thick, stubby, rod-like crystals having a low water carrying capacity, with a diluent to produce an injected resorbable bone graft material in the form of a paste; and injecting the injectable resorbable bone graft material in the bone defect, said injectable resorbable bone graft material having a compressive strength of at least 6 MPa within 20 minutes after said injecting step.

13. (Currently amended) A method for treating bone defects comprising the steps of mixing a powder comprising between about 99.8 to 100 percent by weight calcium sulfate hemihydrate, the calcium sulfate hemihydrate consisting of thick, stubby, rod-like crystals having a low water carrying capacity, with a diluent to produce an ~~injected~~ injectable resorbable bone graft material in the form of a paste; and injecting the injectable resorbable bone graft material in the bone defect, said injectable resorbable bone graft material having a compressive strength of at least 35 MPa within 24 hours after said injecting step.

14. (Original) The method of claim 13, wherein said bone graft material has a compressive strength of approximately 56 MPa within 24 hours after said injecting step.

15. (Currently amended) A method for treating bone defects comprising the steps of mixing a powder comprising about 99.8 to 100 percent by weight calcium sulfate hemihydrate, the calcium sulfate hemihydrate consisting of thick, stubby, rod-like crystals having a low water carrying capacity, with a diluent to produce an injected resorbable bone graft material in the form of a paste, wherein when undergoing dry-testing, said bone graft material has a compressive strength of at least approximately 88 MPa within 24 hours after said mixing step.

16. (Original) The method of claim 15, wherein said bone graft material has a compressive strength exceeding approximately 106 MPa within 24 hours after said mixing step.